Taehui Yun

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Research Interests

Causal Discovery, Reliable AI Systems, Causal Generative Models, Time-Series Modeling

Education

Seoul National University, Graduate School of Data Science (2025.02 – Present)
M.S. & Ph.D. in Data Science
GPA: 3.96/4.3
Advisor: Prof. Sanghack Lee

POSTECH, Department of Industrial and Management Engineering (2020.02 – 2025.02)
B.S. in Industrial and Management Engineering
GPA: 3.72/4.3 (Rank 2/20), *Cum Laude*
Advisor: Prof. Minseok Song

RWTH Aachen University, Department of Computer Science (2023.08 – 2024.04)
Exchange Student, Computer Science

Research Experience

Research Intern, Causality Lab, Seoul National University (2024.09 – 2025.02)
Study on causal normalizing flows for time-series data
Advisor: Prof. Sanghack Lee

Research Intern, FIRM Lab, POSTECH (2022.05 – 2022.09)
Study on hierarchical risk parity
Advisor: Prof. Bong-Gyu Jang

Research Intern, EDEN Lab, POSTECH (2020.12 – 2021.09)
UX design for blockchain systems
Advisor: Prof. Sung H. Han

Industrial Experience

Engineer Intern, LG Electronics, Seoul (2024.06 – 2024.09)
Development of open-source LLM utilization library and PEFT modules

Engineer Intern, GNE, Seoul (2023.03 – 2023.09)
Development of financial risk management platform

Engineer Intern, JURO Instruments, Seoul (2023.01 – 2023.03)
Database design for financial engineering

Projects

Scalable Causal Discovery, LG AI Research (2025.09 – Present)
- Proposed new operator for escaping local optima in score-based causal discovery
- Developed parallel search strategies for scalable causal discovery

Causal Deep Generative Models for Time-Series, LG AI Research (2024.09 – 2025.09)
- Proposed a time-series causal normalizing flow framework enabling multi-step interventional distribution estimation under dynamic treatments
- Extended causal normalizing flows to multivariate time-series for personalized treatment effect simulation

Publications

* indicates joint first authorship (equal contribution), † indicates corresponding author.

Breaking Bad: Component-Wise Parent Deletion for Score-Based Causal Discovery
Min Woo Park*, **Taehui Yun***, YoungIn Jang, Yoonseok Yeom, Jonghwan Kim,
Jiyeon Kang, Songseong Kim, Hyemin Jung, Sangmin Lee, Jongseong Jang†, Sanghack Lee†
Uncertainty in Artificial Intelligence (UAI), 2026

Estimating Interventional Outcomes over Time with Causal Normalizing Flow
Yoonseok Yeom*, Jonghwan Kim*, **Taehui Yun**, Juhyun Lyu, Jung-Hee Kim,
Sangmin Lee, Jinseok Yang, Hyemin Jung, Woohyung Lim†, Sanghack Lee†
Uncertainty in Artificial Intelligence (UAI), 2026

Awards & Honors

- Mirae Asset International Exchange Scholarship (2024)
- IME Global Scholarship, POSTECH (2023)
- Exchange Program Scholarship, POSTECH (2023)
- CES 2023 Conference Scholarship, POSTECH (2023)
- Student Advisor Scholarship, POSTECH (2022)
- Jigok Scholarship, POSTECH (2020 – 2025)